

DESCRIPTIONS OF NORTH AMERICAN HYMENOPTERA, No. 5

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Continued from Vol. 4, Page 231.

Genus MICRODUS, Nees.

MICRODUS IMITATUS. *N. sp.*

♀.—Sanguineous, shining; head, antennæ, prothorax, surroundings of scutellum, pleura beneath, four anterior legs, including their coxæ, posterior trochanters and their tibiæ and tarsi, black; sides of mesothorax tinged with blackish; metathorax coarsely punctured above with four longitudinal carinæ, the two central ones approximate, flanks less coarsely punctured; wings uniformly fuliginous, with the usual hyaline angular streak beneath stigma; abdomen long, narrow, polished, with a purplish reflection; ovipositor longer than body. Length .37 inch.

Massachusetts. More slender than *sanctus*, with the mesothorax, scutellum and sides of pleura sanguineous; the metathorax is differently sculptured and the posterior tibiæ are black.

MICRODUS SIMILLIMUS. *N. sp.*

♂ ♀.—Pale sanguineous or fulvo-ferruginous; head, antennæ, the thorax, except metathorax and four anterior legs including coxæ, black: metathorax opaque, scabrous; wings fuliginous; tips of posterior tibiæ and tarsi more or less fuscous; abdomen shining, suture between first and second segments very deeply impressed. Length .22-.27 inch.

New Jersey; Pennsylvania; Illinois. Much smaller than *sanctus*, which it closely resembles, and from which it is at once distinguished by the posterior trochanters not being black.

MICRODUS CALCARATUS. *N. sp.*

♀.—Sanguineous; head, antennæ, the thorax, except metathorax, four anterior legs, posterior trochanters and their tibiæ and tarsi, black; four anterior knees, anterior tarsi except claws, intermediate tarsi except tips of joints, all the tibial spurs and apical joint of posterior tarsi, white or whitish; metathorax shining above, with carinæ forming an elongate central area; wings fuliginous as usual; abdomen shining, second

segment with two finely crenulated, transverse lines ; ovipositor as long as body. Length .25 inch.

Delaware. Allied to *sanctus*, but much smaller, with the tibial spurs and four anterior tarsi white.

MICRODUS DIVISUS. *N. sp.*

♂.—Sanguineous ; head, antennae, pleura, metathorax, post-scutellum, four anterior legs, including coxae, posterior coxae beneath, their trochanters, tips of their femora, their tibiae and tarsi, black ; metathorax roughly scabrous ; wings fuliginous ; abdomen depressed, smooth and polished, a broad, rather deep fovea on each side at base of second segment. Length .34 inch.

Illinois. Differs from *medius*, to which it is closely allied, by the color of the legs ; the metathorax is more roughly sculptured, and the clear blotch beneath the stigma more obscure, while in *medius* it is very conspicuous.

MICRODUS AGILIS. *N. sp.*

♀.—Small, slender, black ; tip of clypeus, labrum, mandibles and palpi yellowish ; thorax shining, metathorax opaque, scabrous ; wings hyaline, faintly dusky, iridescent ; legs pale sanguineous, posterior tibiae yellowish, their tips, a narrow annulus near base, and their tarsi, blackish ; three basal segments of abdomen pale sanguineous, remainder black, shining ; ovipositor as long as body. Length .25 inch.

Massachusetts.

MICRODUS DISCOLOR. *N. sp.*

♂ ♀.—Small, yellow-ferruginous ; antennæ entirely black ; space between summit of eyes and two large spots on occiput, fuscous ; most of prothorax, sutures of mesothorax, space around scutellum, sides of pleura and metathorax above, all more or less fuscous ; metathorax transversely rugulose above ; scutellum sometimes blackish, and the spots on occiput sometimes indistinct ; wings pale fuscous, areolet very minute ; legs honey yellow, most of tarsi, tips of four posterior tibiae, tips of posterior femora and an annulus near base of their tibiae, blackish ; abdomen opaque, shining beyond third segment, which is more or less fuscous ; one specimen has the vertex, occiput and thorax entirely, the posterior tibiae except broad median annulus, and the first, apex of the second, and the third

segments of abdomen black. The ♂ varies from entirely ferruginous, except antennae and posterior tibiae, to almost entirely black. Length .14 inch.

Illinois. A very variable species.

MICRODUS PALLENS. *N. sp.*

♀.—Honey-yellow, shining; tips of mandibles and antennae black, scape reddish beneath; metathorax roughened, opaque, pubescent; wings pale fuscous, areolet sub-triangular; intermediate tarsi dusky, tips of posterior tibiae and their tarsi black; abdomen polished. Length .22 inch.

Illinois. Allied to *fulvescens*, Cress., with clear spot beneath stigma much less distinct.

MICRODUS LATICINCTUS. *N. sp.*

♂.—Small, black, shining; mandibles and palpi pale; metathorax scabrous; tegulae pale honey-yellow; wings hyaline, iridescent: stigma blackish; legs honey-yellow, posterior coxae dusky at base beneath, their tibiae yellow, broadly black at tips, their tarsi fuscous; abdomen shining black, first segment longitudinally striated, second yellowish, remainder polished. Length .20 inch.

Missouri. (C. V. Riley.)

MICRODUS CINCTUS. *N. sp.*

♂ ♀.—Small, black, shining; tip of clypeus, mandibles and palpi pale-yellowish; antennae pale testaceous, more or less dusky toward tips, scape piceous; metathorax opaque, finely scabrous; tegulae pale; wings hyaline, iridescent, faintly dusky; legs honey-yellow, tips of posterior femora above black, their tibiae yellow, black at tips, with a narrow black annulus near base, their tarsi fuscous; coxae of ♀ generally entirely black, of ♂ entirely honey-yellow; abdomen black, polished, first segment opaque, second segment pale honey-yellow. Length .17 inch.

Illinois. Smaller than *laticinctus*, from which it is at once distinguished by the first abdominal segment not being striated.

MICRODUS ANNULIPES. *N. sp.*

♀.—Small, black, shining; clypeus, mandibles and palpi more or less pale-yellowish; metathorax rugose, somewhat shining; tegulae honey-yellow; wings hyaline, iridescent, stigma and nervures pale brown; legs

honey-yellow, anterior pair pale, posterior tibiae white, tips and a spot near base black, their tarsi black, white at base; abdomen polished black, second and sometimes base of third segment honey-yellow. Length .16-.18 inch.

Massachusetts; Pennsylvania; Illinois. Easily recognized by the white posterior tibiae annulated with black. It is closely allied to the two preceding species.

MICRODUS EARINOIDES. *N. sp.*

♀.—Small, slender, shining black; mouth pale piceous, palpi whitish; metathorax rugose, sub-opaque; tegulae honey-yellow; wings hyaline, iridescent; legs honey-yellow, posterior tarsi whitish, apex and spot near base black, their tarsi black, whitish at extreme base: abdomen black, depressed, polished, basal sutures of second and third segments sometimes pale. Length .15 inch.

Massachusetts; Illinois. Resembles *Earinus limitaris* in miniature.

Genus EARINUS, Wesm.

EARINUS LIMITARIS.

Bassus limitarsis, Say, Bost. Jour. Nat. Hist., i., p. 250.

♂ ♀.—Black, shining, with a short pale silky pile on face, pleura and metathorax; mesothorax not trilobate, feebly punctured; metathorax rounded, shining, disk with a narrow longitudinal groove; tegulae whitish; wings hyaline, iridescent, costal nerve and stigma black, nervures fuscous, areolet quadrate; legs honey-yellow, posterior tibiae pale, apex broadly and a narrow annulus near base black, their tarsi entirely black; abdomen narrow, depressed, polished, second segment with an oblique groove on each side behind which is a round swelling; sheaths of ovipositor thick, fringed with short dense black pubescence. Length .25-.35 inch.

Canada; Mass.; Penn.; Virginia; Illinois. Common.
